

PHYSICS TODAY

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SPECIAL FOCUS: CELEBRATING NIST'S CENTENNIAL

is more accessible to newcomers than is the case with most books devoted to neutron scattering.

Throughout this book, Roe has made judicious choices as to content and level of presentation. He has included with each chapter suggestions for further reading for more in-depth study. Having read this book, students of polymer science will be well equipped to read selectively from more comprehensive texts, such as Julia Higgins and Henri Benoit's highly regarded *Polymers and Neutron Scattering* (Oxford U. Press, 1994). In its breadth and even-handed treatment of x-ray and neutron methods, Roe's book deserves an audience that extends well beyond the polymer science community.

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NEW BOOKS

Acoustics

Nonlinear Acoustics at the Turn of the Millennium. W. Lauterborn, T. Kurz, eds. *AIP Conference Proceedings 524*. Proc. symp., Göttingen, Germany, Sept. 1999. AIP, Melville, N.Y., 2000. \$185.00 (569 pp.). ISBN 1-56396-945-9

Astronomy and Astrophysics

Astrometry of Fundamental Catalogues: The Evolution from Optical to Radio Reference Frames. H. G. Walter, O. J. Sovers. *Astronomy and Astrophysics Library*. Springer-Verlag, New York, 2000. \$68.00 (231 pp.). ISBN 3-540-67436-5

The Chaotic Universe. V. G. Gurzadyan, R. Ruffini, eds. *Advanced Series in Astrophysics and Cosmology 10*. Proc. wksp., Rome, Italy, Feb. 1999. World Scientific, River Edge, N.J., 2000. \$128.00 (668 pp.). ISBN 981-02-4255-7

Delta Scuti and Related Stars: Reference Handbook and Proceedings of the 6th Vienna Workshop in Astrophysics. M. Breger, M. H. Montgomery, eds. *Astronomical Society of the Pacific Conference Series 210*. Proc. wksp., Vienna, Austria, Aug. 1999. Astronomical Society of the Pacific, San Francisco, 2000. \$52.00 (582 pp.). ISBN 1-58381-043-9

The Impact of Large-Scale Surveys of Pulsating Star Research: IAU Colloquium 176. L. Szabados, D. W. Kurtz, eds. *Astronomical Society of the Pacific Conference Series 203*. Proc. mtg., Budapest, Hungary, Aug. 1999. Astronomical Society of the Pacific, San Francisco, 2000. \$52.00 (549 pp.). ISBN 1-58381-030-7

ISO Surveys of a Dusty Universe. D. Lemke, M. Stickel, K. Wilke, eds. *Lectures Notes in Physics 548*. Proc. wksp.,

Miscellaneous

Advances in Control: Highlights of ECC '99. P. M. Frank, ed. Springer-Verlag, New York, 1999. 449 pp. \$104.00 *hc* ISBN 1-85233-122-4

Combustion: Physical and Chemical Fundamentals, Modeling and Simulation, Experiments, Pollutant Formation. 2nd edition. J. Warnatz, U. Maas, R. W. Dibble. Springer-Verlag, New York, 1999 [1996]. 299 pp. \$59.95 *hc* ISBN 3-540-65228-0

A Dictionary of Biology. *Oxford Paperback Reference.* 4th edition. Oxford U. Press, New York, 2000 [1996]. 626 pp. \$14.95 *pb* ISBN 0-19-280102-3

A Dictionary of Physics. *Oxford Paperback Reference.* 4th edition. A. Isaacs, ed. Oxford U. Press, New York, 2000 [1996]. 540 pp. \$14.95 *pb* ISBN 0-19-280103-1

Disasters and Accidents in Manned Spaceflight. *Springer-Praxis Books in Astronomy and Space Sciences.* D. J. Shayler. Springer-Verlag, New York, 2000. 470 pp. \$34.95 *pb* ISBN 1-85233-225-5

Disciplined Minds: A Critical Look at Salaried Professionals and the Soul-Battering System that Shapes Their Lives. J. Schmidt. Rowman & Littlefield, New York, 2000. 294 pp. \$26.95 *hc* ISBN 0-8476-9364-3

The Dreams Our Stuff Is Made of: How Science Fiction Conquered the World. T. M. Disch. Simon & Schuster, New York, 2000. 256 pp. \$25.00 *hc* (\$13.00 *pb*) ISBN 0-684-82405-1 *hc* (0-684-85978-5 *pb*)

The Extraterrestrial Encyclopedia: An Alphabetical Reference to All Life in the Universe. D. Darling. Three Rivers Press, New York, 2000. 513 pp. \$21.95 *pb* ISBN 0-8129-3248-X

The Japanese and Indian Space Programmes: Two Roads into Space. *Springer-Praxis Books in Astronomy and Space Sciences.* B. Harvey. Springer-Verlag, New York, 2000. 210 pp. \$99.00 *hc* ISBN 1-85233-199-2

Origin of Intelligent Life in the Universe. *International School of Plasma Physics "Piero Caldirola" Series.* Proc. Conf. Verenna, Italy, Sep. 1998. R. Colombo, G. Giorrello, G. Rigamonti, E. Sindoni, C. Sinigaglia, eds. Edizioni New Press, Como, Italy, 1999. 437 pp. \$80.00 *hc*

Rocket and Spacecraft Propulsion: Principles, Practice and New Developments. *Springer-Praxis Books in Astronomy and Space Sciences.* M. J. L. Turner. Springer-Verlag, New York, 2000. 219 pp. \$79.95 *hc* ISBN 1-85233-105-4

The Science of Paintings. W. S. Taft Jr, J. W. Mayer. Springer-Verlag, New York, 2000. 236 pp. \$59.95 *hc* ISBN 0-387-98722-3

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